THRUST ACTUATOR DRIVEN BY MOTOR

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Abstract of JP11046467

PROBLEM TO BE SOLVED: To make possible the large equivalent gear ratio of a thrust actuator driven by motor and generate its large thrust without making small the number of the teeth of its input gears, by configuring each of its reduction gears through the gear train comprising the combination of gears whose number is not smaller than a specific one. SOLUTION: A reduction gear is configured by the combination of three or more gears. Providing a front-side sun gear 1f at the left end of a rotor 1b and a rear-side sun gear 1g at the right end of the rotor 1b, one-portions of front-side and rear-side reduction gears 2, 3 are configured respectively. The front-side and rear-side reduction gears 2, 3 comprise respective two front-side and rear-side planetary gears 2b, 3b provided respectively around the front-side and rear-side sun gears 1f, 1g, and respective two front-side and rear-side internal gears 2a, 3a provided respectively on the outsides of the gears 2b, 3b and in an actuator housing 7. The respective two front-side and rear-side planetary gears 2b, 3b are all fastened rotatably to front-side and rear-side planet carriers 2d, 3d by axes 2c, 3c. As a result, changing the numbers of the teeth of the internal gears 2a, 3a and sun gears 1f, 1g one by one on the front and rear sides, the large equivalent gear ratio of a thrust actuator driven by motor can be achieved.
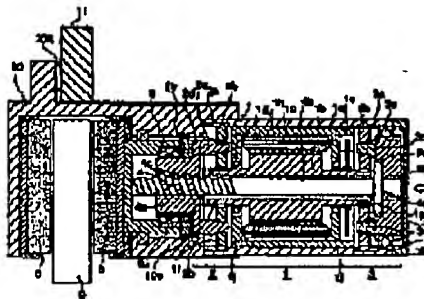
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